

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000244

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A62C 37/00, A62C 31/02, A62C 31/03  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A62C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, PAJ, FULLTEXT, EPOQUE, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5967239 A (DIRK SPRAKEL ET AL), 19 October 1999 (19.10.1999), column 3, line 35 - column 4, line 2, figure 1, claims 1-7	1-8
	--	
X	DE 3444486 A1 (ELTRO GMBH, GESELLSCHAFT FÜR STRAHLUNGSTECHNIK), 12 June 1986 (12.06.1986), page 7, line 9 - line 23, figures 1-4	1-8
	--	
A	DE 3322543 A1 (ELTRO GMBH, GESELLSCHAFT FÜR STRAHLUNGSTECHNIK), 22 March 1984 (22.03.1984), figures 1-9, claims 1-18, abstract	1-8
	--	

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

8 Sept 2004

Date of mailing of the international search report

13 -09- 2004

Name and mailing address of the ISA/  
 Swedish Patent Office  
 Box 5055, S-102 42 STOCKHOLM  
 Facsimile No. +46 8 666 02 86

Authorized officer

Beata Slusarczyk/Els  
 Telephone No. +46 8 782 25 00

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000244

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 2003591 A1 (GRAVINER (COLNBROOK) LTD.), 3 Sept 1970 (03.09.1970), figures 1-2, claims 1-11 --	1-8
A	DE 19948324 A1 (FOGTEC BRANDSCHUTZ GMBH & CO. KG), 19 April 2001 (19.04.2001), figure 3, claims 1-6, abstract --	1-8
A	US 5639029 A (GÖRAN SUNDHOLM), 17 June 1997 (17.06.1997), figures 1-15, claims 1-13, abstract --	1-8
P,A	WO 03089065 A1 (MARIOFF CORPORATION OY), 30 October 2003 (30.10.2003), figures 1-2, claims 1-7, abstract -----	1-8

## INTERNATIONAL SEARCH REPORT

Information on patent family members

31/07/2004

International application No.

PCT/FI 2004/000244

US	5967239	A	19/10/1999	AU	5501696	A	18/11/1996
				AU	5689696	A	18/11/1996
				DE	19514939	A,C	24/10/1996
				DE	29518911	U	25/01/1996
				DE	29623240	U	15/01/1998
				DE	59607094	D	00/00/0000
				DE	59607325	D	00/00/0000
				EP	0822849	A,B	11/02/1998
				EP	0830181	A,B	25/03/1998
				ES	2159735	T	16/10/2001
				ES	2161356	T	01/12/2001
				JP	11503944	T	06/04/1999
				JP	11503945	T	06/04/1999
				US	6173909	B	16/01/2001
				WO	9633774	A	31/10/1996
				WO	9633775	A	31/10/1996
-----							
DE	3444486	A1	12/06/1986	DE	3322543	A,C	22/03/1984
				GB	2122891	A,B	25/01/1984
				GB	8317802	D	00/00/0000
-----							
DE	3322543	A1	22/03/1984	DE	3444486	A,C	12/06/1986
				GB	2122891	A,B	25/01/1984
				GB	8317802	D	00/00/0000
-----							
DE	2003591	A1	03/09/1970	BE	745548	A	16/07/1970
				GB	1299352	A	13/12/1972
				IL	33839	D	00/00/0000
				NL	7001616	A	07/08/1970
				US	3647109	A	07/03/1972
-----							
DE	19948324	A1	19/04/2001	AU	1695201	A	10/05/2001
				CN	1378474	T	06/11/2002
				EP	1224014	A	24/07/2002
				JP	2003511114	T	25/03/2003
				WO	0124881	A	12/04/2001
-----							

## INTERNATIONAL SEARCH REPORT

Information on patent family members

31/07/2004

International application No.

PCT/FI 2004/000244

US	5639029	A	17/06/1997	AT	168592	T	15/08/1998
				AU	675247	B	30/01/1997
				AU	4962793	A	12/04/1994
				AU	4962893	A	12/04/1994
				BR	9307050	A	24/08/1999
				CA	2144634	A	31/03/1994
				CA	2144635	A	31/03/1994
				CN	1051255	B	12/04/2000
				CN	1084419	A	30/03/1994
				CN	1086157	A	04/05/1994
				DE	4394531	T	21/09/1995
				DE	69319915	D,T	18/03/1999
				DK	25295	A	15/05/1995
				DK	660754	T	02/11/1998
				EP	0660754	A,B	05/07/1995
				SE	0660754	T3	
				ES	2118970	T	01/10/1998
				FI	96172	B,C	15/02/1996
				FI	101516	B	00/00/0000
				FI	924119	A	16/03/1994
				FI	951156	A	09/05/1995
				FI	951157	A	12/05/1995
				GB	2286119	A	09/08/1995
				GB	9505141	D	00/00/0000
				JP	3299278	B	08/07/2002
				JP	8501465	T	20/02/1996
				JP	8501722	T	27/02/1996
				NO	300530	B	16/06/1997
				NO	950982	A	11/05/1995
				NO	950983	A	11/05/1995
				RU	2121886	C	20/11/1998
				SE	9500900	A	12/04/1995
				SG	48413	A	17/04/1998
				WO	9406517	A	31/03/1994
				WO	9406567	A	31/03/1994
				FI	924120	D	00/00/0000
				FI	96179	B,C	15/02/1996
				FI	933873	A	04/03/1995

---

WO	03089065	A1	30/10/2003	FI	20020758	A	20/10/2003
----	----------	----	------------	----	----------	---	------------

---